Lytecel Linear **LL4MF8LR154**

Downlight, Surface/Pendant, 4-5/8" Deep, 8-9/16" Wide
48" or 96" Nominal Lengths (Without End Caps), 1 Lamp T5

Features

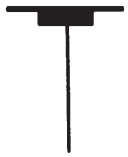
- Downlight surface/pendant.
- Softly rounded corners and edges create a subtle architectural appearance.
- 48" and 96" modular lengths without end caps.
- 48" long louver gives an uninterrupted louver appearance when row mounted.
- No visible fasteners.
- Self-aligning ends for hairline joints in continuous row mounting.
- Efficiency 73,8% (8 cell). Efficiency 66.5% (12 cell).
- Spacing ratio 1.7 (12 cell), 1.8 (8 cell).
- 20 gauge body.
- Die-cast aluminum end caps.
- Pre-anodized low iridescence semi-specular aluminum parabolic louver with protective film dust bag (standard).
- 95% reflective specular aluminum top reflector.
- Spring-loaded latches.
- Bead safety chain allows louver to be suspended safely for relamping.
- Meets New York City requirements.

Mounting Methods/Features

Chrome Pendant mounting stem sets (Optional). Catalog Number: 18048

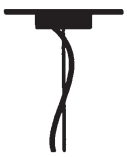
Chrome Pendant mounting stem extension (Optional). Catalog Number: 18148.

End cap, two provided with Individual Fixture (48") length), none provided with Joiner Fixture (96" length). Catalog Number: LLF END CAP.



Canopy and Single Cable, adjustable 6" to 60". Canopy is white. Catalog Number: WC60.

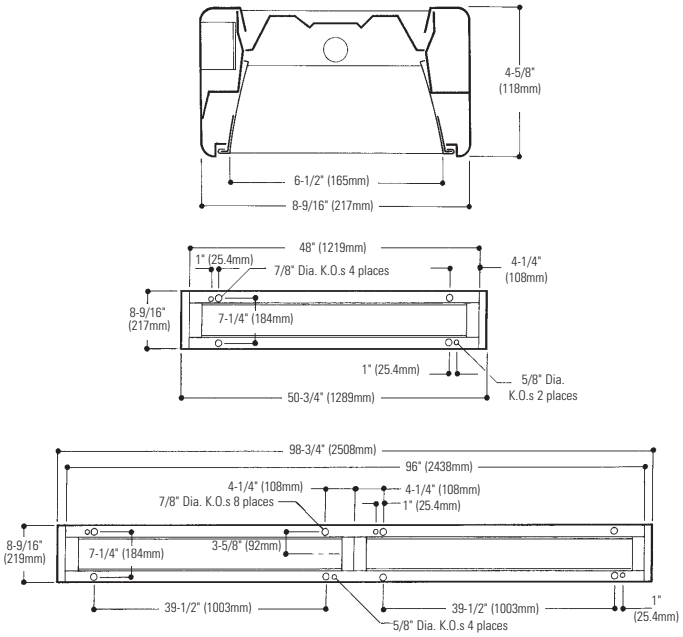
Slide Grip Hanger, two provided with Individual Fixture (48") length, one provided with Joiner Fixture (96" length). Catalog Number: LLF SLIDE GRIP.



Canopy, Straight Cord and Single Cable adjustable 6" to 60". Canopy, Straight Cord is white. Catalog Number: WCC60.

Canopy, Coiled Cord, Single Cable adjustable 6" to 60". Canopy, Coiled Cord is white. Catalog Number: WCCC60.

Dimensions



Job Information **Type:**

Job Name:

Cat. No.:

Lamp(s):

Volts/Ballast:

Lightolier a Genlyte company www.lightolier.com
Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
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LIGHTOLIER®

Downlight, Surface/Pendant, 4-5/8" Deep, 8-9/16" Wide, 48" or 96" Nominal Lengths (Without End Caps), 1 Lamp T5

Model No. LL4MF8LR154120PG (8 Cell)

LER = FP - 57.8 IW - 64 BF - 1.00
Comparative yearly lighting energy cost per 1000 lumens = $4.15

Report Number: G2004188
Catalog Number: LL4MF8LR154120PG
Lamp: FP54/835 HO
Luminaire: LL4 with reflector, 8 cell louver
Ballast: Universal B254PUNV-D
64.0 Watts
Report is based on 5000 Lumens per lamp.
Efficiency: 73.8%

CIE Type-Direct-Indirect

Plane:	0-Deg	90-Deg
Spacing Criteria:	1.2	1.8
Shielding Angles:	65	55
Plane:	0-Deg	90-Deg
Luminous Length:	48.000	6.480

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1172	1172	1172	
5	1174	1191	1193	114
15	1126	1205	1258	344
25	1039	1365	1967	674
35	912	1786	2253	1029
45	667	1542	1336	955
55	375	631	227	456
65	58	91	57	96
75	20	15	11	18
85	5	4	2	4
90	0	0	0	

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80			50			30		
RW	70	50	30	50	30	10	50	30	10
1	82	80	77	75	73	71	72	71	69
2	76	71	67	68	64	62	65	63	60
3	70	64	59	61	57	54	59	56	53
4	65	57	52	55	50	47	53	49	46
5	60	52	46	49	45	41	48	44	40
6	56	47	41	45	40	36	44	39	36
7	52	42	36	41	36	32	40	35	32
8	48	39	33	37	32	28	36	32	28
9	45	35	30	34	29	26	33	29	25
10	42	32	27	31	26	23	31	26	23

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	4699.	10863.	9412.
55	3257.	5480.	1971.
65	684.	1073.	672.
75	385.	289.	212.
85	286.	229.	114.

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1132	22.6	30.7
0- 40	2161	43.2	58.6
0- 60	3288	65.8	96.6
0- 90	3690	73.8	100.0
90-180	0	0.0	0.0
0-180	3690	73.8	100.0

Model No. LL4MF12LR154120PG (12 Cell)

LER = FP - 52.3 IW - 64 BF - 1.00
Comparative yearly lighting energy cost per 1000 lumens = $4.59

Report Number: G2004189
Catalog Number: LL4MF12LR154120PG
Lamp: FP54/835 HO
Luminaire: LL4 with reflector, 12 cell louver
Ballast: Universal B254PUNV-D
64.0 Watts
Report is based on 5000 Lumens per lamp.
Efficiency: 66.5%

CIE Type-Direct-Indirect

Plane:	0-Deg	90-Deg
Spacing Criteria:	1.2	1.7
Shielding Angles:	55	65
Plane:	0-Deg	90-Deg
Luminous Length:	48.000	6.480

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1109	1109	1109	
5	1116	1134	1132	108
15	1079	1154	1184	329
25	1001	1325	2022	665
35	814	1773	2323	1013
45	595	1396	1144	855
55	153	398	168	284
65	45	46	34	52
75	17	13	8	15
85	5	4	2	4
90	0	0	0	

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80			50			30		
RW	70	50	30	50	30	10	50	30	10
1	74	72	70	68	66	65	65	64	63
2	69	65	61	61	59	57	59	57	55
3	64	58	54	56	52	49	54	51	49
4	59	53	48	50	46	43	49	46	43
5	55	48	43	46	41	38	44	41	38
6	51	43	38	42	37	34	40	37	34
7	47	39	34	38	33	30	37	33	30
8	44	36	31	35	30	27	34	30	27
9	41	33	28	32	27	24	31	27	24
10	39	30	25	29	25	22	29	25	22

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	4192.	9835.	8059.
55	1329.	3457.	1459.
65	530.	542.	401.
75	327.	250.	154.
85	286.	229.	114.

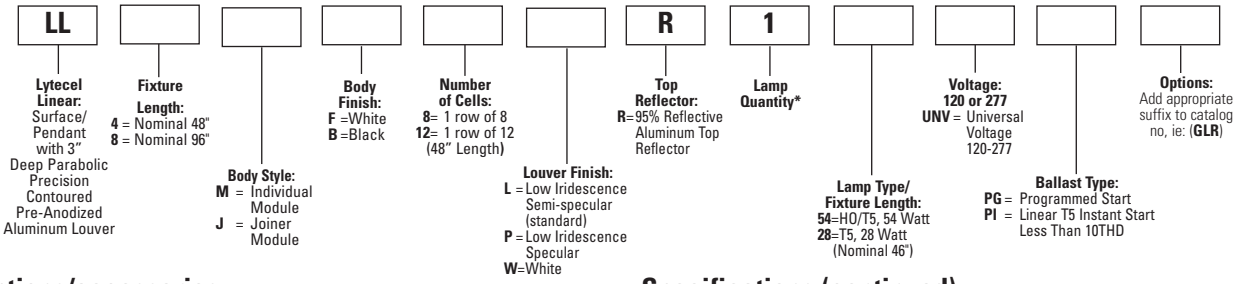
ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1102	22.0	33.1
0- 40	2115	42.3	63.6
0- 60	3254	65.1	97.9
0- 90	3325	66.5	100.0
90-180	0	0.0	0.0
0-180	3325	66.5	100.0

Ordering Information

Explanation of Catalog Number. Example: LL4MF8LR154120PGGLR

*8' units have lamps in tamdem


LL
Lytecel Linear: Surface/ Pendant with 3" Deep Parabolic Precision Contoured Pre-Anodized Aluminum Louver
Fixture Length: 4 = Nominal 48" 8 = Nominal 96"
Body Style: M = Individual Module J = Joiner Module
Body Finish: F =White B =Black
Number of Cells: 8= 1 row of 8 12= 1 row of 12 (48" Length)
Louver Finish: L = Low Iridescence Semi-specular (standard) P = Low Iridescence Specular W=White
R
Top Reflector: R=95% Reflective Aluminum Top Reflector
1
Lamp Quantity*
Lamp Type/ Fixture Length: 54=HO/T5, 54 Watt 28=T5, 28 Watt (Nominal 46")
Voltage: 120 or 277 UNV = Universal Voltage 120-277
Ballast Type: PG = Programmed Start PI = Linear T5 Instant Start Less Than 10THD
Options: Add appropriate suffix to catalog no, ie: (GLR)

Options/accessories

Stem Sets: 1/2" diameter tubing, 18" long, chrome plated finish. Catalog Number: **18048**.
Stem Extension Kit: 1/2" diameter tubing, 18" long, chrome plated finish extension. Catalog Number: **18148**.
Single Cable and Canopy. Catalog Number: **WC60**.
Single Cable, Straight Cord and Canopy. Catalog Number: **WCC60**.
Single Cable, Coiled Cord and Canopy. Catalog Number: **WCCC60**.
Electrical Wiring Options: Consult factory.
Fusing: Internal fast-blow fusing. Suffix: **GLR**.
Internal slow-blow fusing. Suffix: **GMF**.

Specifications

Performance: In an installation of 1 lamp 54W luminaires with a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall be not less than .80. Candela at 65° shall not exceed 96 (8 cell). To control veiling reflections, luminaire output in the 30°- 90° zone shall be not less than 69.3%.
Materials: Chassis parts are die-formed 20 gauge code cold rolled steel, End caps are die-cast aluminum with soft rounded corners.

Specifications (continued)

Louver: Pre-anodized aluminum (Coilzak® or equal).
Finish: Louver–low iridescence semi-specular anodized aluminum (standard).
Chassis exterior–semi-gloss (standard) flat white acrylic-white baked enamel, **Cavity**–white baked enamel. Phosphate undercoating.
Electrical: Thermally protected class "P" ballast, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.
Labels: I.B.E.W./UL and ULc Listed.

Job Information **Type:**

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